WBLE-SL ► UECM347	73-202201-EZZ ► Quizzes ► 202201UECM34730E3a ► Review of preview	Update this Quiz			
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Started on	Friday, 4 March 2022, 02:20 PM				
Completed on Time taken	n Friday, 4 March 2022, 02:20 PM				
	o out of a maximum of 10 (0%)				
1 ₪ Marks: 1	An automobile liability coverage is sold in three territories, A, B, and C. 50% of the business is sold in A, 24% in B, and 26% in C. Claim frequencies on this coverage are given in the following table: Number of Claims Territory 0 1 2 A				
	An insured selected at random had no claims in one period. Determine the probability of one claim from this insured in the next period				
	Answer:				
	Make comment or override grade				
	Incorrect Correct answer: 0.2368 Marks for this submission: 0/1.				
2 Marks: 1	An automobile liability coverage is sold in three cities, J, K, and L. 38% of the business is sold in J, 29% in K, and 33% in L. Claim frequencies on this coverage are given in the following table: Number of Claims				
	Answer:				
	Make comment or override grade Incorrect Correct answer: 0.6698 Marks for this submission: 0/1.				
3 ☑ Marks: 1	 You are given: The annual number of claims on a given policy has a geometric distribution with parameter β. 33% of the policies have β = 3.8, 45% of the policies have β = 6.9, and the remaining 22% have β = 8.5. 				
	A randomly selected policy had 5 claims in Year 1. Calculate the Bayesian expected number of claims for the selected policy in Year2.				
	Answer:				

	Make comment or override grade			
	Incorrect 1994 6 1994 6			
	Correct answer: 6.192145 Marks for this submission: 0/1.			
4 🕏	Two eight-sided dice, A and B, are used to determine the number of claims for an insured. The faces of each die are marked with either 0 or 1, representing the number of claims for that insured for the year.			
Marks: 1	Die P(claims = 0) P(claims = 1)			
	A 5/8 3/8 B 3/8 5/8 Two spinners, X and Y, are used to determined claim cost. Spinner X has two areas marked 17 and c. Spinner Y has only one area marked 17.			
	Spinner $P(cost = 17)$ $P(cost = c)$			
	$egin{array}{c ccc} X & 1/2 & 1/2 \\ \hline Y & 1 & 0 \\ \hline \end{array}$			
	To determine the losses for the year, a die is randomly selected from A and B and rolled. If a claim occurs, a spinner is randomly selected from X and Y. For subsequent years, the same die and spinner are used to determine losses. Losses for			
	the first year are 17. Based upon the results of the first year, you determine that the expected losses for the second year are 12.0. Calculate c.			
	Answer:			
	Make comment or override grade			
	Incorrect			
	Correct answer: 50.5334 Marks for this submission: 0/1.			
	Marks for this submission. 0/1.			
5 🕏	You are given the following information about six coins:			
Marks: 1	Coin Probability of heads			
	1-4 0.39 5 0.35			
	5 0.35 6 0.26			
	A coin is selected at random and then flipped repeatedly. X_i denotes the outcome of the i th flip, where '1' indicates heads and '0' indicates tail. The following sequence is obtained:			
	$S = (X_1, X_2, X_3, X_4); = (1, 0, 1, 1)$ Determine $E(X_5 S)$ using Bayesian analysis			
	Answer:			
	X X			
	Make comment or override grade			
	Incorrect Correct answer: 0.374885			
	Marks for this submission: 0/1.			
6 👺	Claim size follows a single-parameter Pareto distribution with parameters a = 5 and 0. Over all insureds, 0 has a uniform distribution on [1, 16]. An insured is selected at random submits 3 claims of sizes 8, 10, and 13. Determine the			
Marks: 1	posterior mean			
	Answer:			
	Make comment or override grade			
	Incorrect			
	Correct answer: 7.5294			
	Marks for this submission: 0/1.			
7 ☑ Marks: 1	The conditional distribution of a frequency model X, given the risk parameter θ is $P(X = 0 \theta = \theta) = 2\theta, P(X = 1 \theta = \theta) = 1\theta, P(X = 2 \theta = \theta) = 1-3\theta$			
riono. 1	The parameter θ is assumed to be uniformly distributed on the interval [0, 1/3]. Determine $P(X_2 = 0 X_1 = 0)$.			
	Answer:			
	Make comment or override grade			
	Make comment or override grade Incorrect			
	Correct answer: 0.444444			
	Marks for this submission: 0/1.			

8 🕏 Marks: 1	Losses are uniformly distributed on [insured is less than 14.0	uniformly distributed on [0, θ]. Θ varies by insured uniformly over [8, 20]. For a randomly selected insured, one observation of loss size is less that 14.0, Calculate the probability that the next observation of loss size from the same ess than 14.0.			
	Answer:				
	Make comment or override grade				
	Incorrect Correct answer: 0.841102 Marks for this submission	: 0/1.			
9 🕏 Marks: 2	Please click the following link to answ Then answer 1 here after submitting [Note: In order to enter the google for	https://docs.google.com/forms/d/e/1FAIpQLSfVNxHcrtlPiQpaNXUay9MfsGJqgd2KH4QSZ88T2tSr75iD-w/viewform?usp=sf_link			
	Answer:	X X			
	Make comment or override grade				
	Incorrect Correct answer: 1 Marks for this submission	: 0/2.			

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